

Fig.1A.

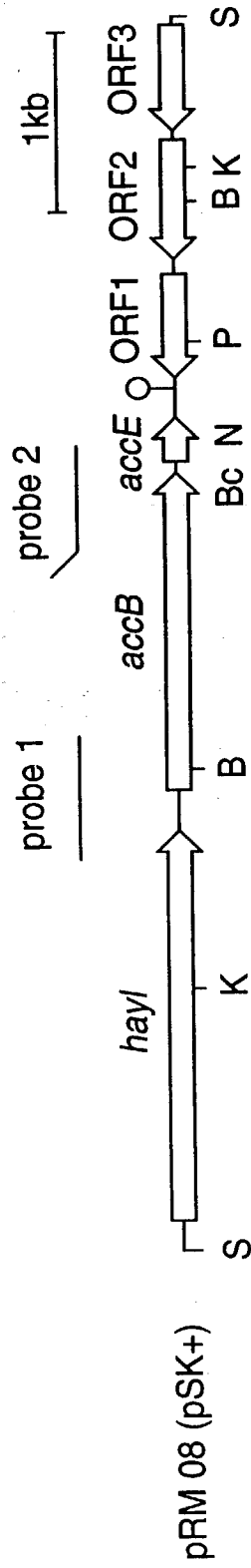
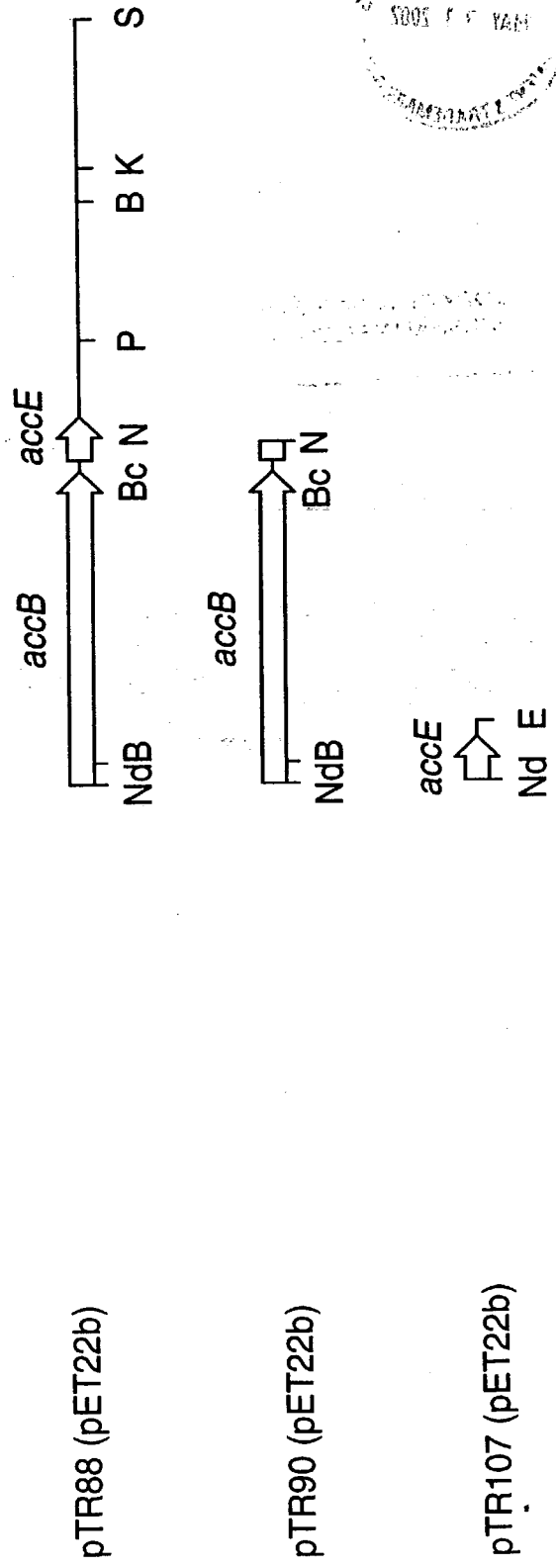


Fig.1B.



10045612 1053102 #5

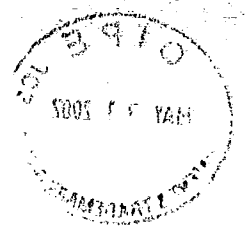


Fig.2A.

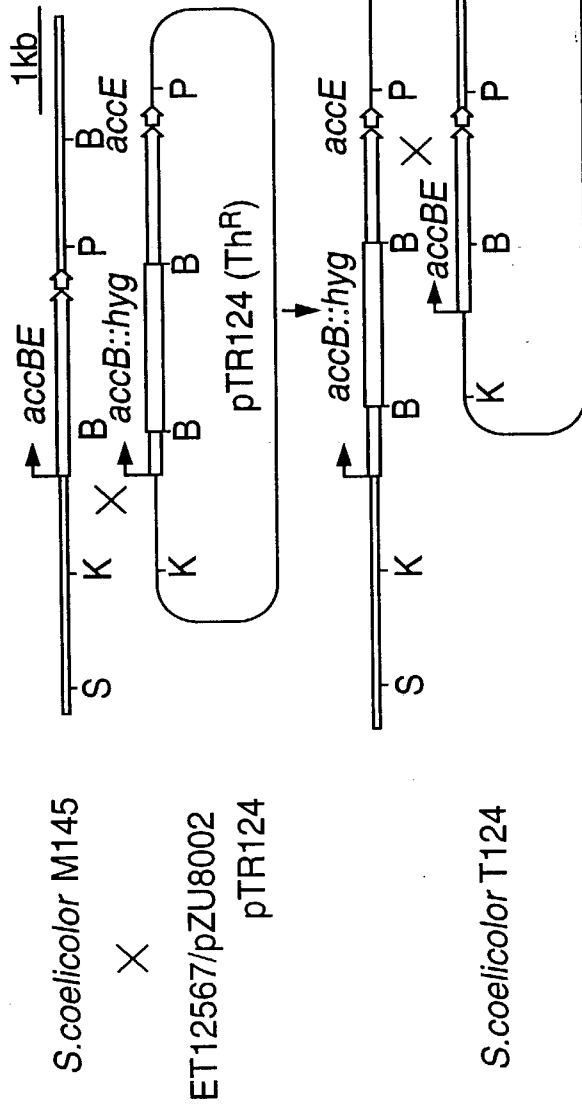


Fig.2B

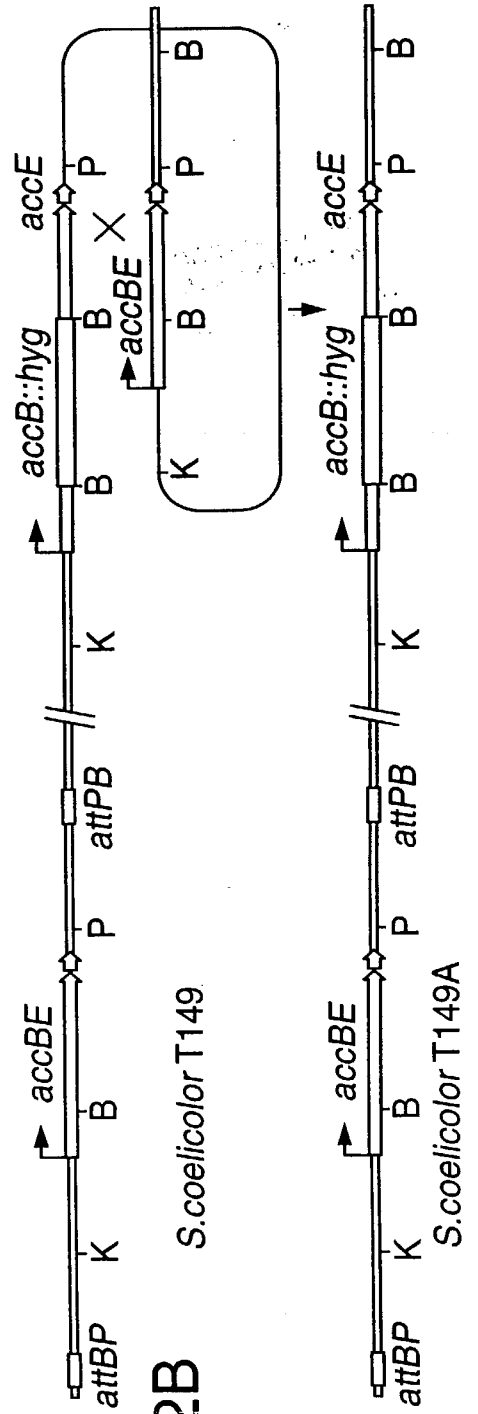
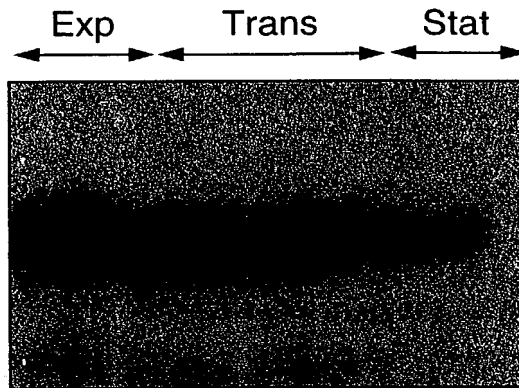
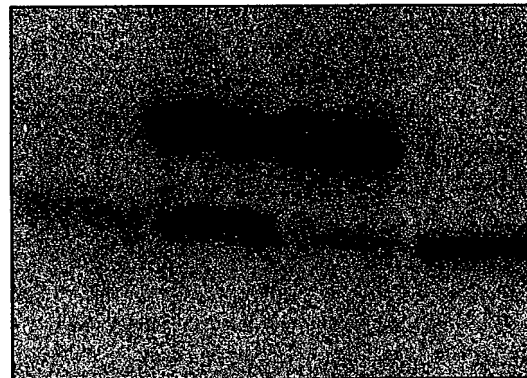




Fig.3A.



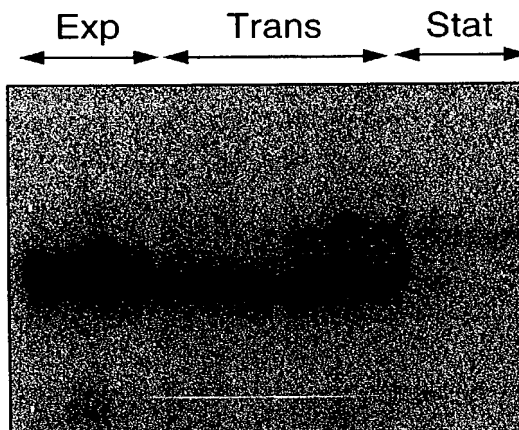
accBEp



actIIORF4p

hrdBp

Fig.3C.



Probe
FLP

Fig.3B.

AAACGGCCGGAGACTGTACGGAGTCGACGGCTCGCAATCCTTGCTCGGCTTCGTAGAGT
-----+-----+-----+-----+-----+
TTTGCCCGGCTCTGACATGCCCTCAGCTGCCGAGCGTTAGGAACGAGCCGAAGCATCTCA
accBEp
CGCTACATGACCGTTTGGATGAGGCCCGGGCGAGCCGACGACGCGCGGGGGGTG
-----+-----+-----+-----+-----+
GCGATGTACTGGCAAAACCTACTCCGCGCCCGCTCGGCTGCCGTGCGCGCGCCGCCAC
[AccB] M T V L D E A P G E P T D A R G R V

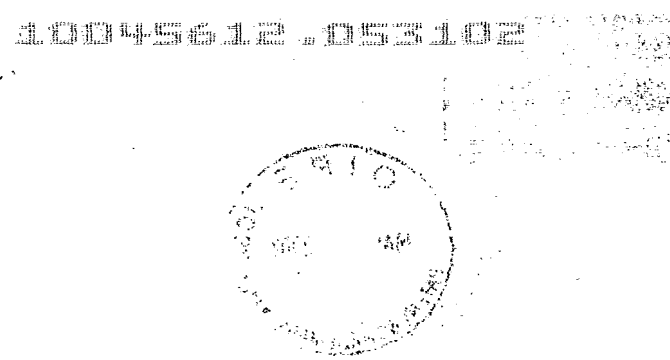




Fig.4A.

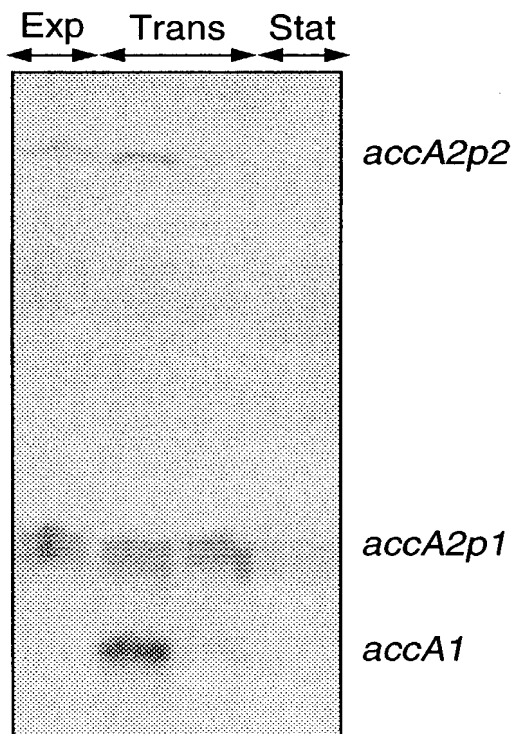


Fig.4B.

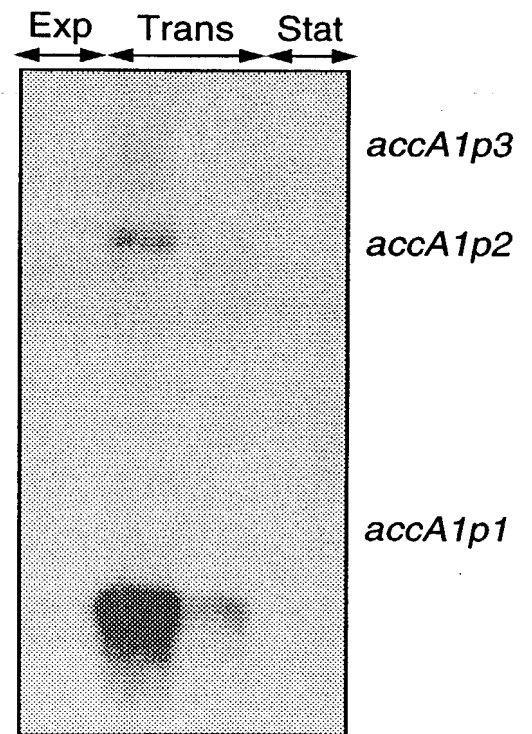




Fig.5A.

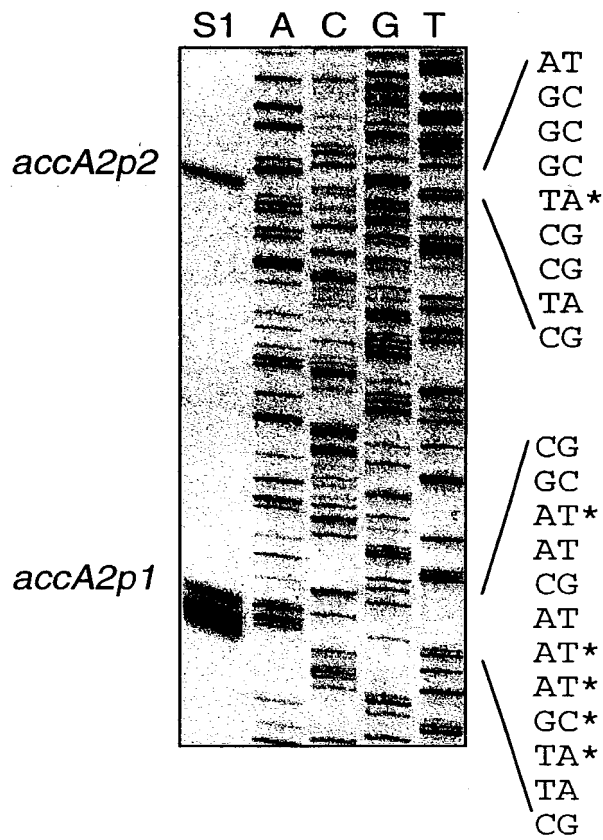


Fig.5B.

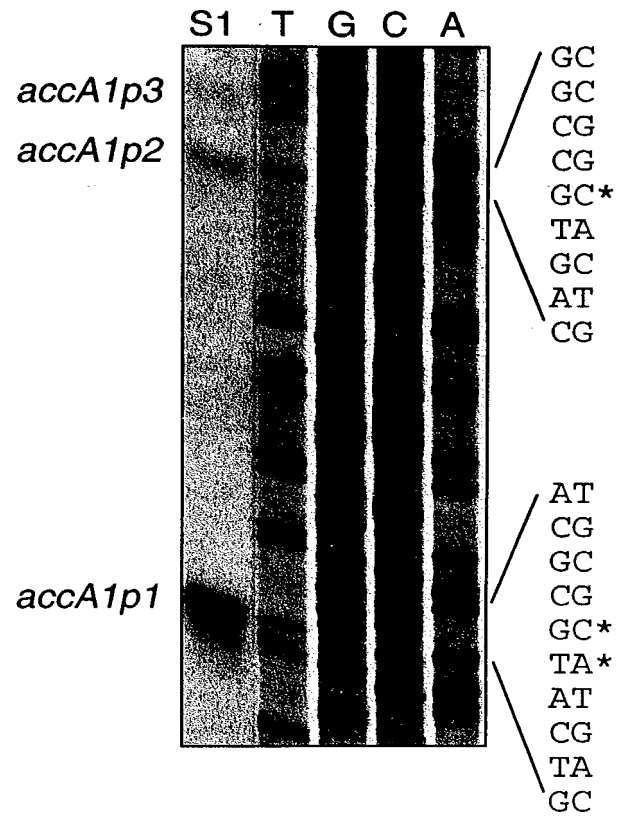
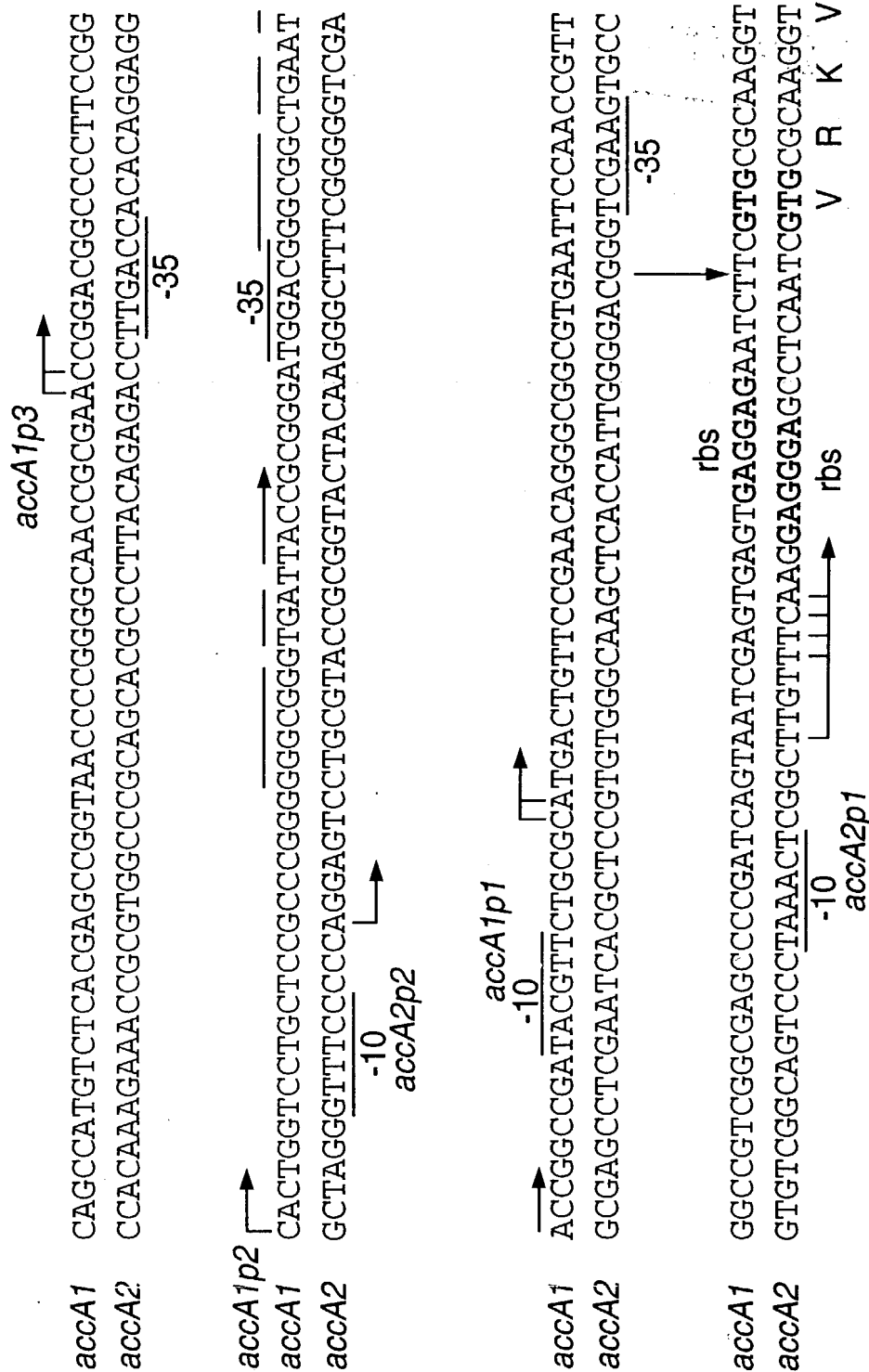


Fig.5C.



10045612 053102

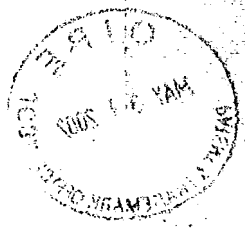
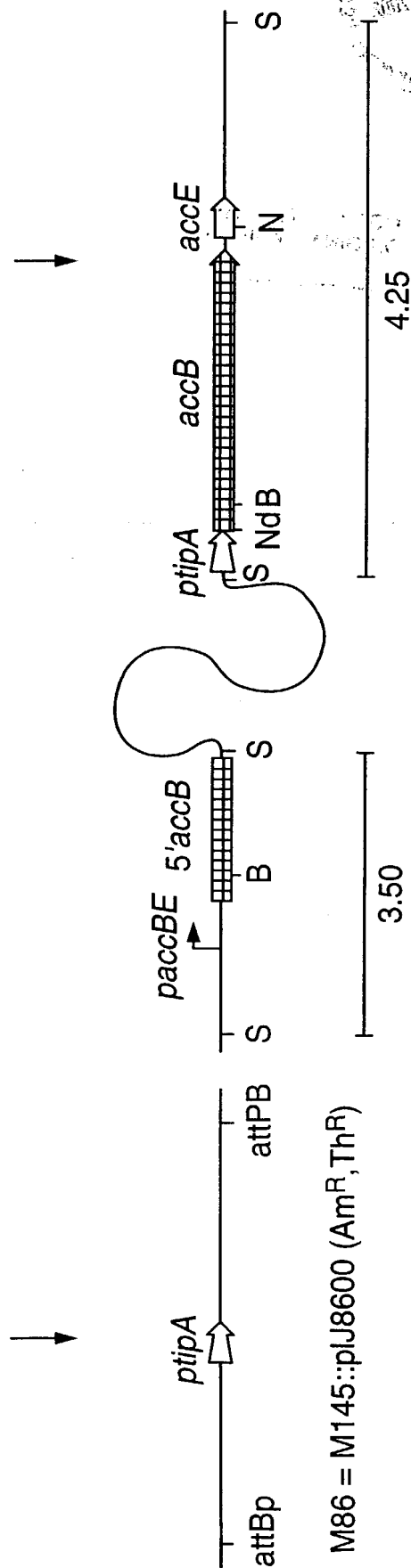
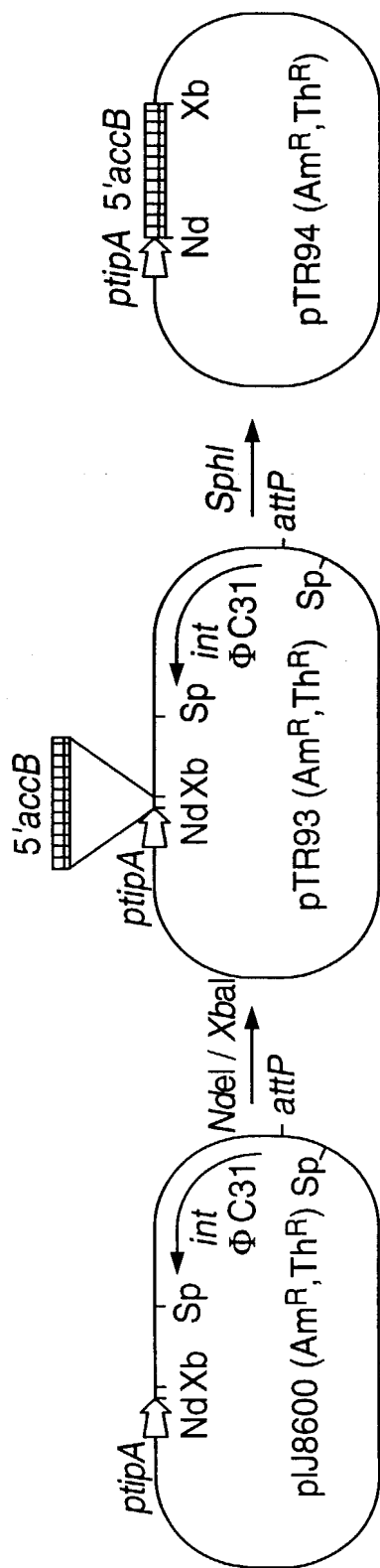


Fig.6A.



M94 = M145::pTR94 (Am^R, Th^R)

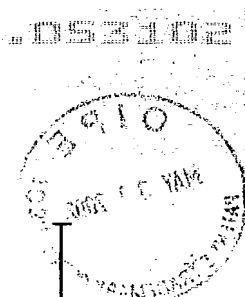




Fig.6B.

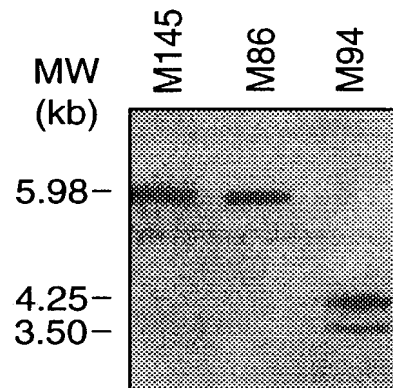


Fig.7A.

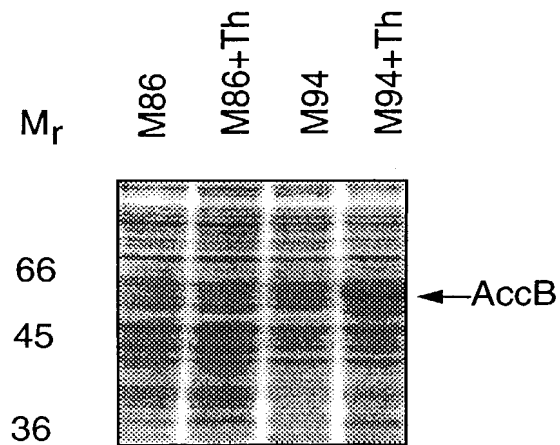


Fig.7B.

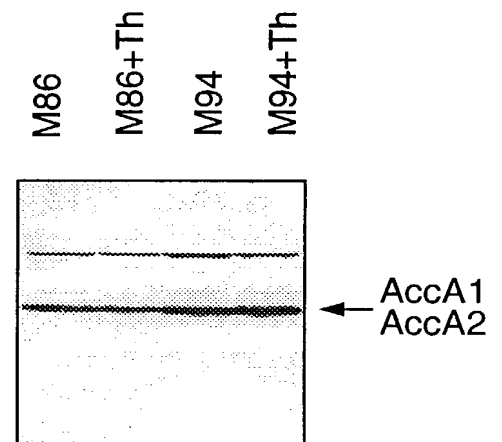




Fig.8A.

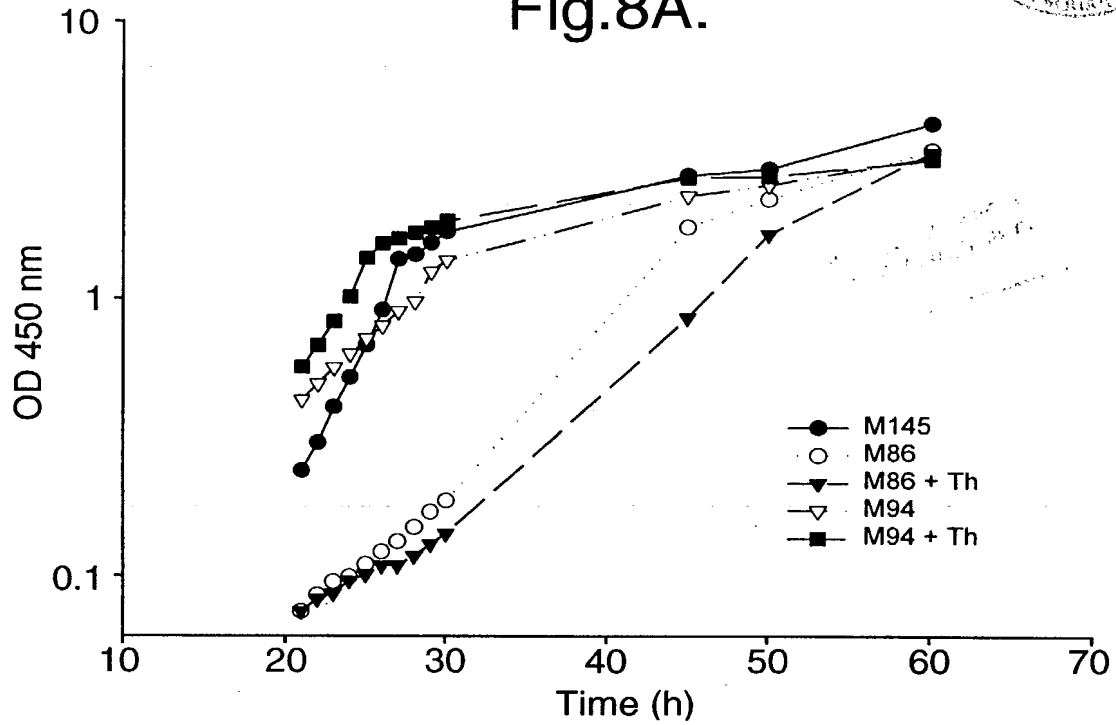


Fig.8B.

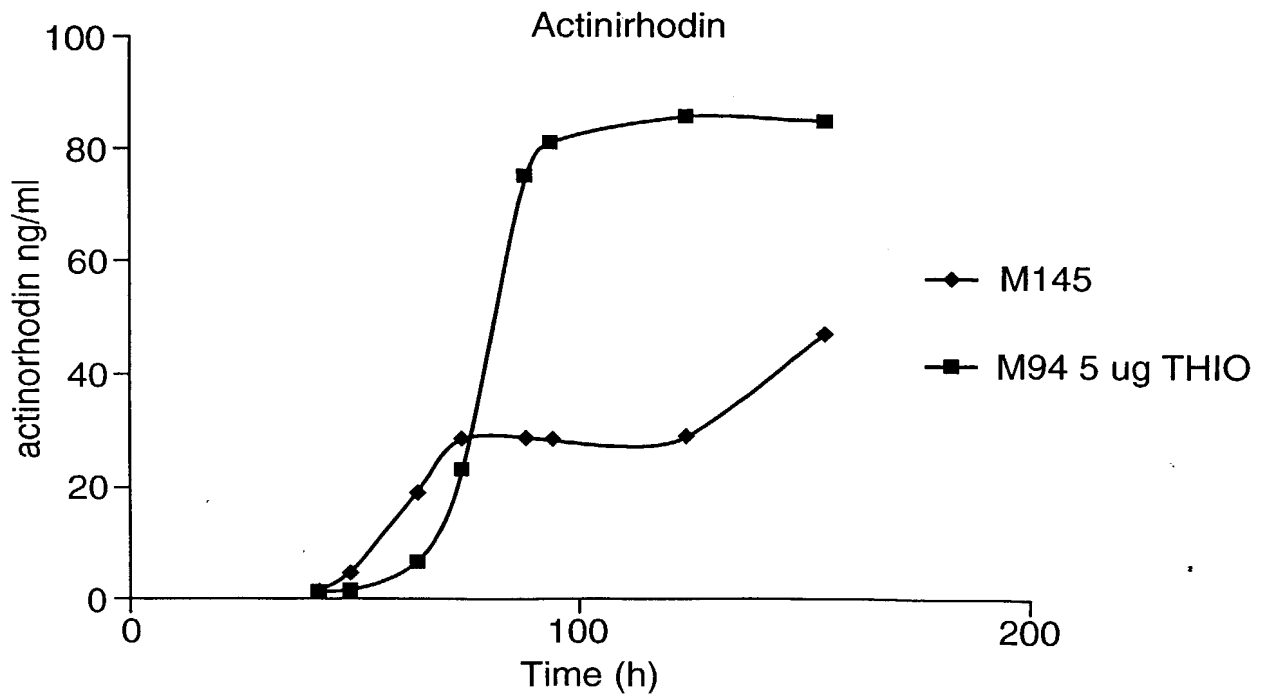




Fig.9.

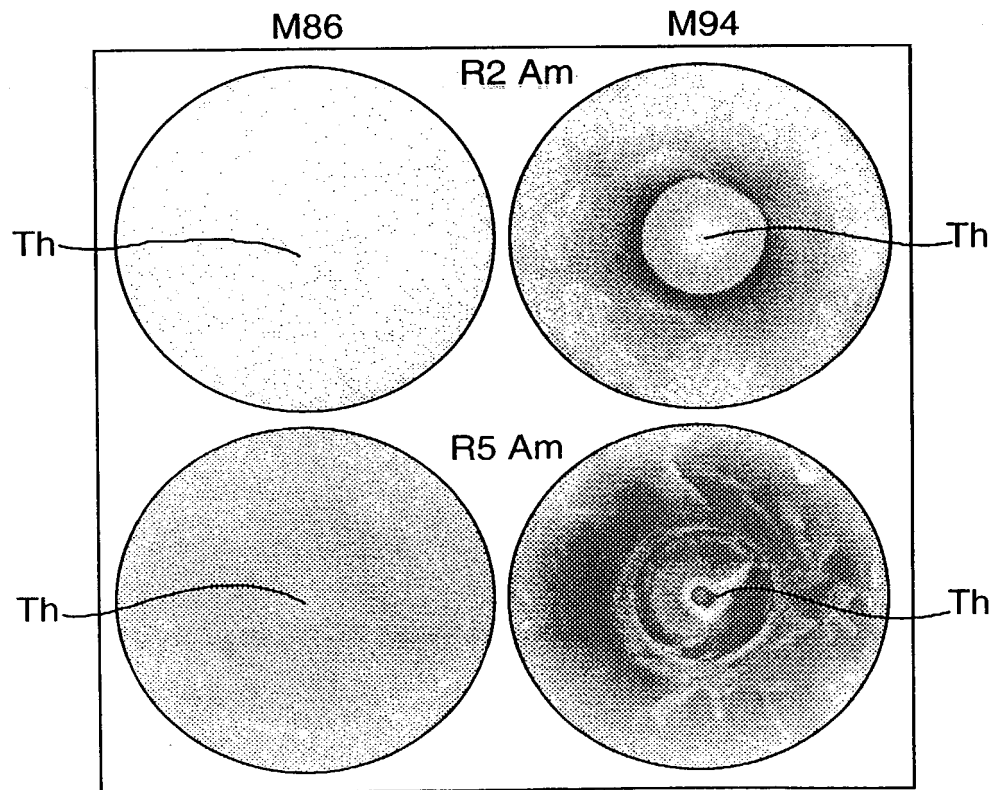




Fig. 10

TATTCTAGACATATGACCGTTTTGGATGAGGCGCCGGGCGAGCCGACGGACGCGCGGGCGGGTG
 GCCGAGCTGCACGGGATCCGTGCAGCGGCGCTCGCCGGGCCGAGTGAGAAGGCGACGGCGGCGCAG
 CACGCCAAGGGCAAGCTGACGGCACGTGAGCGCATCGAGCTGCTCCTGGACCCCGGCTCCTTCCGC
 GAGGTCGAGCAGCTGCGCCGGCACCGGGCGACCGGGTTTCGGCCTGGAGGCCAAGAAGCCGTACACC
 GACGGTGTATCACC GGCTGGGGCACGGTCGAGGGCCGCACGGTCTTCGTCTACGCCACGACTTC
 CGGATCTTCGGCGGCGCGCTGGGGCAGGCCCACGCCACGAAGATCCACAAGATCATGGACATGGCC
 ATCGCGGCCCGGTGCCCCGCTGGTGTGCTGAACGACGGCGCCGGCGCCCGTATCCAGGAGGGCGTC
 AGCGCGCTCGCCGGGTACGGCGGCATCTTCCAGCGCAACACCAAGGCGTCCGGCGTCATCCCGCAG
 ATCAGCGTGATGCTCGGCCCTGCGCGGGCGGCGCGGCCTACAGCCCCGCCCTCACC GACTTCGTC
 TTCATGGTCCGCGACACCTCGCAGATGTTTCATCACGGGCCCCGGACGTCGTCAAGGCGGTACCCGGC
 GAGGAGATCACGCAGAACGGTCTGGGCGGCGCCGACGTGCACGCCGAGACGTCCGGCGTGTGCCAC
 TTCGCCTACGACGACGAGGAGACCTGCCTCGCCGAGGTCCGCTACCTCCTCTCCCTCCTCCCGCAG
 AACAAACCGGGAGAACCCGCCCCGCGCCGAGTCCTCCGACCCCGTGGACCGCCGCTCGGACACCCTC
 CTCGACCTGGTCCCGGCGGACGGCAACCGCCCGTACGACATGACCAAGGTCATCGAGGAACTCGTC
 GACGAGGGCGAGTACCTGGAGGTCCACGAGCGTTG**TCTAGAGGT**

Fig. 11

A. AccA1

VRKVLIANRGEIAVRVARACRDAGIASVAVYADPDRDALHVRAADEAFALGGDTPATSYLDIAKVL
 KAARESGADAIHPGYGFLSENAEFAQAVLDAGLIWIGPPPHAIRDRGEKVAARHIAQRAGAPLVAG
 TPDPVSGADEVVAFAKEHGLPIAIAAFGGGGRLKVVARTLEEVPELYDSAVREAVAAAFGRGECFV
 ERYLDKPRHVETQCLADTHGNVVVVSTRDCSLQRRHQKLVEEAPAPFLSEAQTEQLYSSSKAILKE
 AGYGGAGTVEFLVGMDGTIFFLEVNTLQVEHPVTEEVAGIDLVRMFRIADGEELGYDDPALRGH
 SFEFRINGEDPGRGFLPAPGTVTLFDAPTGPVRLDAGVESGSVIGPAWDSLLAKLIVTGRTRAEA
 LQRAARALDEFTVEGMATAIPFHRTVVRDPAFAPELTGSTDPFTVHTRWIETEFVNEIKPFTTPAD
 TETDEESGRETVVVEVGGRLEVSLPSSLGMSLARTGLAAGARPKRRAAKKSGPAASGDTLASPMQ
 GTIVKIAVEEGQEVQEGDLIVVLEAMKMEQPLNAHRSGTIKGLTAEVGASLTSGAAICEIKD

A. AccA2

VRKVLIANRGEIAVRVARACRDAGIASVAVYADPDRDALHVRAADEAFALGGDTPATSYLDIAKVL
 KAARESGADAIHPGYGFLSENAEFAQAVLDAGLIWIGPPPHAIRDRGEKVAARHIAQRAGAPLVAG
 TPDPVSGADEVVAFAKEHGLPIAIAAFGGGGRLKVVARTLEEVPELYDSAVREAVAAAFGRGECFV
 ERYLDKPRHVETQCLADTHGNVVVVSTRDCSLQRRHQKLVEEAPAPFLSEAQTEQLYSSSKAILKE
 AGYVGAGTVEFLVGMDGTISFLEVNTLQVEHPVTEEVAGIDLVRMFRIADGEELGYDDPALRGH
 SFEFRINGDHPGRGFLPAPGTVTLFDAPTGPVRLDAGVESGSVIGPAWDSLLAKLIVTGRTRAEA
 LQRAARALDEFTVEGMATAIPFHRTVVRDPAFAPELTGSTDPFTVHTRWIETEFVNEIKPFTTPAD
 TETDEESGRETVVVEVGGRLEVSLPSSLGMSLARTGLAAGARPKRRAAKKSGPAASGDTLASPMQ
 GTIVKIAVEEGQEVQEGDLIVVLEAMKMEQPLNAHRSGTIKGLTAEVGASLTSGAAICEIKD

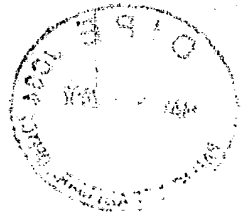


Fig. 11 (cont)

B. accA1

gtgcgcaaggtgctcatcgccaatcgtggcgaaatcgctgtccgcgtggccccgggctgccgggac
gccgggatcgcgagcgtggccgtctacgcggatccggaccgggacgcgttgacgtccgtgccgct
gatgaggcgttcgccctgggtggtgacacccccgcgaccagctatctggacatcgccaaggtcctc
aaagccgcgcgcgagtcgggcgcggacgccatccacccccggctacggattcctctcggagaacgcc
gagttcgcgaggcggctcctggacgcggcctgatctggatcgccccgcgcccgacgccatccgc
gaccgtggcgaaaaggtcgccgccccgccacatcgcccagcgggccccgcgccccctggctcgccggc
acccccgacccccgtctccggcgcggaacgaggtcgctcgcccttcgccaaggagcacggcctgcccatc
gccatcaaggccgccttcggcgggcgggcgggcgcgccctcaaggtcgcccgcacccctcgaagaggtg
ccggagctgtacgaactccgccgtccgcgaggccgtggccgccttcggccgcggggagtgcttcgtc
gagcgctacctcgacaagccccgccacgtggagacccagtgccctggccgacacccacggcaacgtg
gtcgctcgtctccacccgcgactgctccctccagcgccgccaccaaagctcgtcgaggaggcccc
gcgccctttctctccgaggcccagacggagcagctgtactcatcctccaaggccatcctgaaggag
gccggctacggcggcgcggcaccgtggagttcctcgtcggcatggacggcacgatcttcttctg
gaggtcaacacccgcctccaggtcgagcaccgggtcaccgaggaagtcgccggcatcgacttggtc
cgcgagatgttcgcgatcgccgacggcgaggaaactcgggttacgacgacccccgccttcgcgcggccac
tccttcgagttccgcgatcaacggcgaggacccccggcgcggttcctgccccccccggcacccgtc
accctcttcgacgcgcccacccggccccggcggtccgcctggacgcggcgctcgagtcgggtccg
tcacgcggccccgcctgggactccctcctcgccaaactgatcgtcaccggccgcacccgcgcggagg
cactccagcgcgcgggccccgcgccttgagcaggttcaccgtcgagggcattggccaccgccatccct
tcacccgcacggctcgtccgcgacccggccttcgccccgaactcaccggctccacggaccccttca
ccgtccacacccgggtggatcgagacggagttcgtcaacgagatcaagcccttcaccacgccccgcg
acaccgagacggacgaggagtcgggcccgggagacgggtcgtcgtcgaggtcggcggcaagcgctgg
aagtctccctccctccagcctgggcattgccttgccccgaaccggcctggccgcggggggccgcg
ccaagcgccgcgcggccaagaagtccggccccgcgcctcgggacacccctcgccctccccgatgc
agggcacgatcgtcaagatcgccgtcgaggaaggccaggaagtccaggaaggcgacctcatcgctg
tactcgaggcgatgaagatggaacagccctcaacgcccacaggtccggcaccatcaagggcctca
ccgccgaggtcggcgcctccctcacctccggcgccgccatctgcgagatcaaggactga



Fig. 11 (cont)

B. *accA2*

gtgcgcaaggtgctcatcgccaatcgtggcgaaatcgtgtccgcgtggccccgggcctgccgggac
gccgggatcgcgagcgtggccgtctacgcggatccggaccgggacgcggttgacgtccgtgccgct
gatgaggcgttcgccctgggtggtgacacccccgcgaccagctatctggacatcgccaaggtcctc
aaagccgcgcgcgagtcgggcgcggacgccatccacccccggctacggattcctctcgggagaacgcc
gagttcgcgcaggcgggtcctggacgcgggcctgatctggatcggccccgccccgcacgceatccgc
gaccgtggcgaaaaggtcgccgccccgccacatcgcccagcgggcccgcgcccccttggtcgccggc
acccccgacccccgtctccggcgcgacgaggtcgtcgccttcgccaaggagcacggcctgcccatc
gccatcaaggccgccttcggcggcggcgggcgcgccctcaaggtcgcccgacccctcgaagaggtg
ccggagctgtacgactccgccgtccgcgaggccgtggccgccttcggccgcggggagtgcttcgtc
gagcgtacctcgacaagccccgccacgtggagaccagtgccctggccgacacccacggcaacgtg
gtcgtcgtctccacccgcgactgctccctccagcgcgcgccacaaaagctcgtcgaggaggcccc
gcgcctttctctccgaggcccagacggagcagctgtactcatcctccaaggccatcctgaaggag
gccggctacggcggcgcggcaccgtggagttcctcgtcggcatggacggcacgatcttcttctg
gaggtcaacacccgcctccaggtcgagcaccgggtcaccgaggaagtcgccggcatcgacttggtc
cgcgagatgttcgcgcatcgccgacggcgaggaaactcggttacgacgacccccgcctgcgcggccac
tcttcgagttccgcgcatcaacggcgaggacccccggcgcggttcttgcgcgccccggcaccgtc
accctcttcgacgcgcccacggccccggcggtccgcctggacgcggcggtcgagtcgggtccgtc
atcgccccgcctgggactccctcctcgccaaactgatcgtcaccggccgcacccgcgcggagga
ctccagcgcgcggccccgcgccttgacgagttaccgtcgagggcagggccaccgcatcccttc
caccgcacggtcgtccgcgacccggccttcgccccgaactcaccggtccacggaccccttcacc
gtccacacccgggtggatcgagacggagttcgtcaacgagatcaagcccttcaccacgcccgcgcgac
accgagacggacgaggagtcgggcgggagacggtcgtcgtcgaggtcggcggaagcgccctggaa
gtctccctccctccagcctgggcatgtccctggccgcacccggcctggcgcgggggccccgccc
aagcgccgcgcggccaagaagtcgggccccgcgcctcggggcgacacccctgcctccccgatgcag
ggcacgatcgtcaagatcgccgtcgaggaaggccaggaagtcaggaaggcgacctcatcgtcgta
ctcgaggcgatgaagatggaacagccctcaacgcccacaggtccggcaccatcaagggcctcacc
gccgaggtcggcgccctccctcacctccggcgccgcatctgcgagatcaaggactga

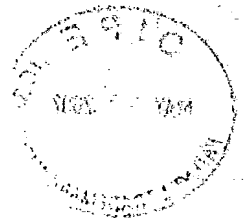


Fig. 12

A. AccB

MTVLDEAPGEPTDARGRVAELHGIRAAALAGPSEKATAAQHAKGKLTARERIELLLDPGSFREVEQ
LRRHRATGFGLEAKKPYTDGVITGWGTVEGRTVFVYAHDFRIFGGALGEAHATKIHKIMDMAIAAG
APLVSLNDGAGARIQEGVSALAGYGGIFQRNTKASGVIPOISVMLGPCAGGAAYSPALTDFVFMVR
DTSQMFITGPDVVKAVTGEEITQNLGGADVHAETSGVCHFAYDDEETCLAEVRYLLSLLPQNNRE
NPPRAESSDPVDRRSDTLDDLVPADGNRPYDMTKVIEELVDEGEYLEVHERWARNIICALARLDGR
VVGIVANQPQALAGVLDIEASEKAARFVQMCDAFNIPITLLDVPGFPLPGVDQEHGGIIRHGAKLL
YAYCNATVPRISLILRKAYGGAYIVMDSQSIGADLTAYWPTNEIAVMGAEGAANVIFRRQIADAED
PEAMRARMVKEYKSELHPYAAERGLVDDVIDPAETREVLITSLAMLHTKHADLPSRKHGNNPQ

B. accB

ATGACCGTTTTGGATGAGGCGCCGGGCGAGCCGACGGACGCGCGCGGGCGGGTGGCCGAGCTGCAC
GGGATCCGTGCAGCGGCGCTCGCCGGGCGAGTGAGAAGGCGACGGCGGCGCAGCACGCCAAGGGC
AAGCTGACGGCACGTGAGCGCATCGAGCTGCTCCTGGACCCCGGCTCCTTCCGCGAGGTGAGCAG
CTGCGCCGGGCACCGGGCGACCGGGTTTCGGCCTGGAGGCCAAGAAGCCGTACACCGACGGTGTCTATC
ACCGGCTGGGGCACGGTCGAGGGCCGCAACGGTCTTCGTCTACGCCCACGACTTCCGGATCTTCGGC
GGCGCGCTGGGCGAGGCCCACGCCACGAAGATCCACAAGATCATGGACATGGCCATCGCGGCCGGT
GCCCCGCTGGTGTCTGTAACGACGGCGCCGGCGCCCGTATCCAGGAGGGCGTCAGCGCGCTCGCC
GGGTACGGCGGCATCTTCCAGCGCAACACCAAGGCGTCCGGCGTCATCCCGCAGATCAGCGTGATG
CTCGGCCCCCTGCGCGGGCGGCGCGGCCCTACAGCCCCGCCCTCACCGACTTCGTCTTCATGGTCCGC
GACACCTCGCAGATGTTTCATCACGGGCCCCGACGTCGTCAAGGCGGTACCGGGCGAGGAGATCACG
CAGAACGGTCTGGGCGGCGCCGACGTGCACGCCGAGACGTCCGGCGTGTGCCACTTCGCCTACGAC
GACGAGGAGACCTGCCTCGCCGAGGTCCGCTACCTCCTCTCCCTCCTCCCGCAGAACAACCGGGAG
AACCCGCCCCGCGCCGAGTCTCCGACCCCGTGGACCGCCGCTCGGACACCCCTCCTCGACCTGGTC
CCGGCGGACGGCAACCGCCCGTACGACATGACCAAGGTTCATCGAGGAACCTCGTCGACGAGGGCGAG
TACCTGGAGGTCCACGAGCGTTGGGCCCCGCAACATCATCTGCGCGCTGGCCCGTCTCGACGGGCGG
GTCGTGGGCATCGTCGCCAACCAGCCGAGGCCCTGGCCGGTGTCTGGACATCGAGGCGTCGGAG
AAGGCGGCCCCGCTTCGTCCAGATGTGCGACGCCTTCAACATCCCGATCATCACTCTTCTGGACGTA
CCCGGCTTCCTGCCCCGGCGTCGACCAGGAGCACGGCGGGATCATCCGCCACGGCGCCAAGCTGCTC
TACGCGTACTGCAACGCGACCGTGCCCCGGATCTCGCTGATCCTGCGCAAGGCGTACGGAGGTGCT
TACATCGTCATGGACAGCCAGTCCATCGGCGCCGACCTCACCTACGCCTGGCCGACCAACGAGATC
GCCGTTCATGGGCGCGGAAGGTGCCGCGAACGTTCATCTTCGCCGGCAGATCGCCGACGCCGAGGAC
CCCGAGGCCATGCGGGCGCGCATGGTCAAGGAGTACAAGTCCGAGCTGATGCACCCCTACTACGCG
GCCGAACGCGGTCTGGTCGACGACGTTCATCGACCCCGCCGAAACCCGCGAGGTGCTGATCACGTCC
CTGGCGATGCTCCACACCAAGCACGCCGACCTGCCCTCCCGCAAGCACGGCAACCCGCGCAGTGA



Fig. 13

A. *Acce*

MSPADIRVEKGHAEPEEVAAITALLARAAARPAEIIAPTHGGGRARAGWRRLEREPGFRAPHSWR

B. *acce*

ATGTCCCCTGCCGACATCCGCGTCGAGAAGGGCCACGCCGAGCCCGAGGAAGTCGCCGCC
ATCACGGCCCTCCTCCTGGCCCCGCGCCGCCGCCGCCGCCGCCGAGATCGCGCCGACCCAC
GGCGGCGGCCGCGCCCGCGCCGGCTGGCGCCGCCCTGGAACGCGAGCCGGGCTTCCGCGCC
CCGCACAGCTGGCGCTGA

Fig.14.

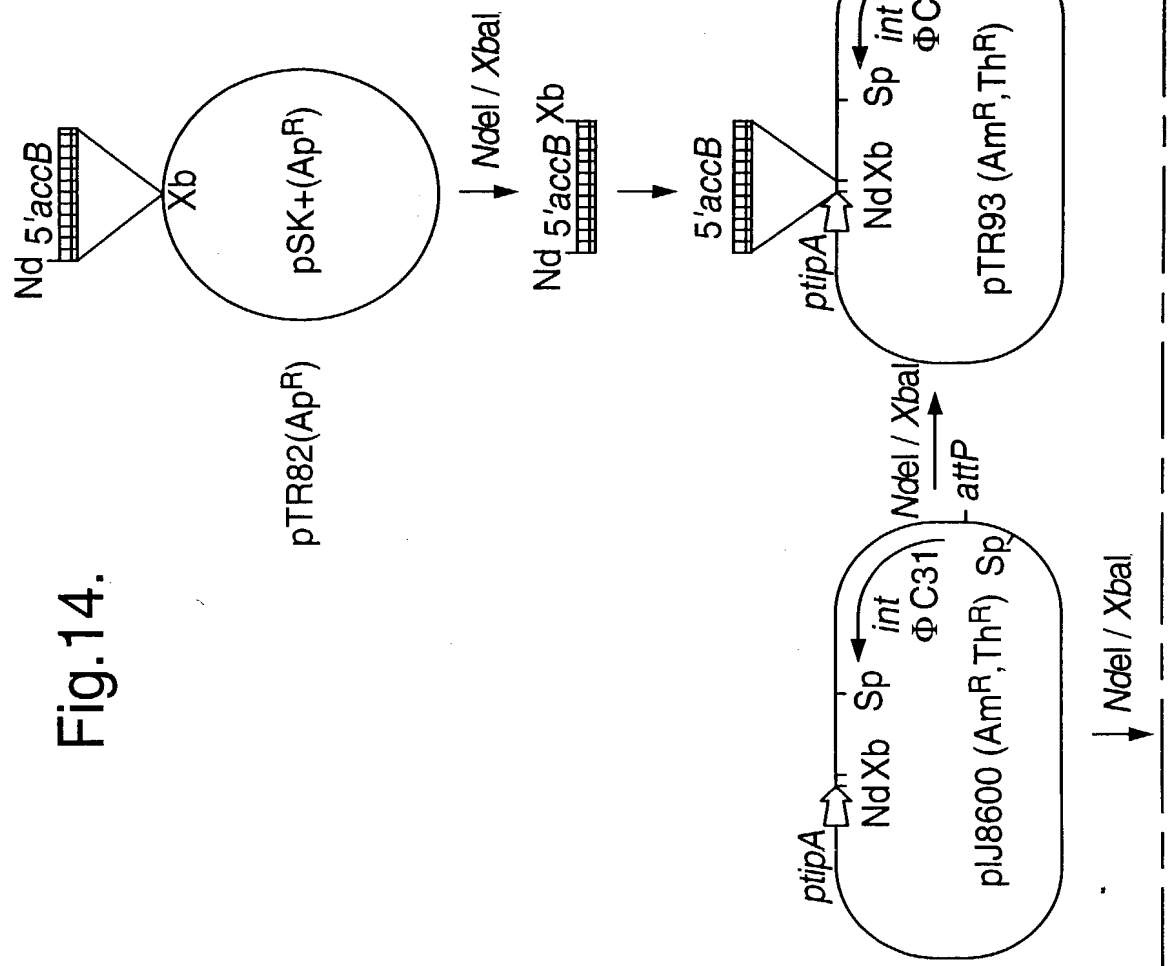
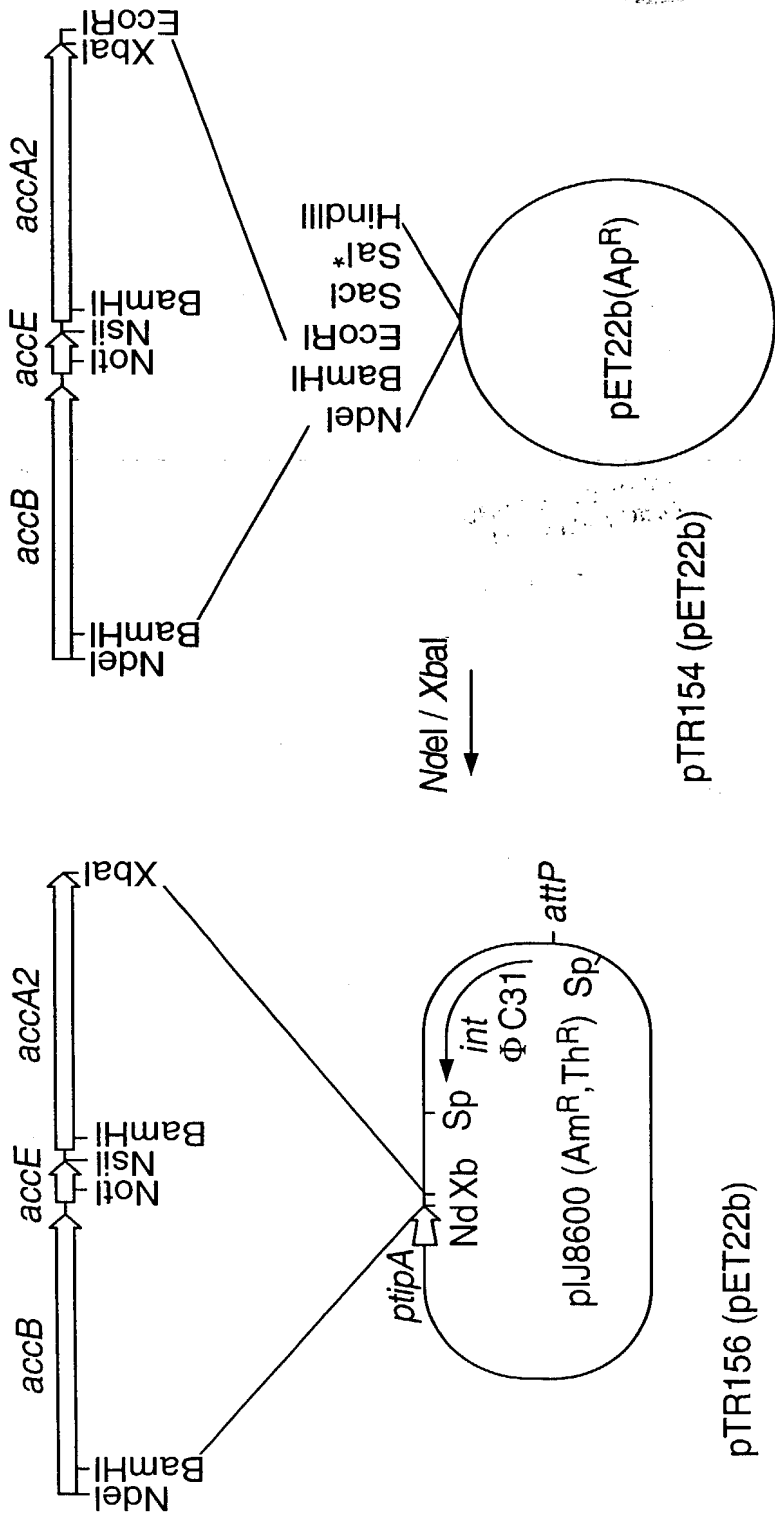


Fig.14.Cont



10045612 053102

